

REMARKS

Applicant appreciates the Examiner's thorough consideration provided the present application. Claims 1-11, 13-16, 19 and 20 are present in the application. Claims 1, 3-5, 7, 9, 10 and 15 have been amended and claims 12, 17 and 18 have been canceled by this Amendment. Support for this Amendment can be found in the drawings and the specification as originally filed and Applicant asserts that no new matter has been added. Claims 1, 7 and 15 are independent. Reconsideration of this application, in view of the above amendment and remarks set forth below, is respectfully requested.

Claim Objections

The Examiner has objected to claim 5 because of minor informalities. In order to overcome this objection, Applicant has amended claim 5 to correct the deficiencies pointed out by the Examiner. Reconsideration and withdrawal of this objection are respectfully requested.

Rejections Under 35 U.S.C. §§ 102 and 103

Claims 1, 4-8, 10-15 and 18-20 stand rejected under 35 U.S.C. § 102(b) as being anticipated by Hartford et al. (U.S. Patent No. 5,337,091, hereinafter "Hartford"); and claims 2, 3, 9, 16 and 17 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Hartford. These rejections are respectfully traversed.

Amended independent claim 1 recites, among other features, that the IF demodulating unit includes "a video detector outputting a video signal, a sound trap filter eliminating a sound IF (intermediate frequency) signal from the video signal of the video detector and disposed between the video detector and the trap filter, and a first filter disposed at an input side of the video detector."

Applicant respectfully submits that Harford fails to teach these features of amended independent claim 1. The Office Action equates the trap filter, the sound trap filter and the first filter of the claimed invention to a 4.5 MHz sound IF trap filter 41, a SAW filter 15 and an AFPC filter 40 of Harford, respectively. Harford nowhere discloses that the SAW filter 15 is disposed between the video detectors (18, 19) and the 4.5 MHz sound IF trap filter 41. Harford merely

teaches that the 4.5 MHz sound IF trap filter 41 is disposed at an output port of the I video detector 18 (see Fig. 1 of Harford). Further, because the sound trap filter is used to eliminate a sound IF signal from the video signal of the video detector and is disposed between the video detector and the trap filter, the sound trap filter and the trap filter are disposed at an output side of the video detector. However, Harford does not disclose that the SAW filter 15 is disposed at an output side of the video detectors (18, 19), but rather the SAW filter 15 in Harford is located at an input side of the video detectors 18 and 19 (see Fig. 1 of Harford). Therefore, Harford fails to teach or suggest that the IF demodulating unit includes a video detector outputting a video signal, a sound trap filter eliminating a sound IF (intermediate frequency) signal from the video signal of the video detector and disposed between the video detector and the trap filter, and a first filter disposed at an input side of the video detector, as recited in amended independent claim 1.

Amended independent claim 7 recites, among other features, "a sound trap filter configured to eliminate a sound signal from an output video signal of the first filter and disposed at the video signal processing line; a trap filter disposed at an output side of a sound trap filter to eliminate a beat component; an IF amplifier disposed at an input side of the first filter; and a video detector disposed between the first filter and the sound trap filter."

Harford fails to teach these features of claim 7. Because the sound trap filter eliminates a sound signal from an output video signal of the first filter, and the video detector is disposed between the first filter and the sound trap filter, the first filter is disposed at the input side of the video detector and the sound trap filter is disposed at the output side of the video detector. Harford nowhere discloses that the video detectors (18, 19) are disposed between the AFPC filter 40 and the SAW filter 15. Further, claim 7 recites that the trap filter is disposed at the output side of the sound trap filter. However, in Harford, the AFPC filter 40 is not disposed at the input side of the video detectors (18, 19). Therefore, Harford fails to teach or suggest a sound trap filter configured to eliminate a sound signal from an output video signal of the first filter and disposed at the video signal processing line, a trap filter disposed at an output side of a sound trap filter to eliminate a beat component, an IF amplifier disposed at an input side of the first filter, and a video detector disposed between the first filter and the sound trap filter, as recited in amended independent claim 7.

Amended independent claim 15 recites, among other features, “a sound trap filter disposed at an input side of the trap filter; and a video detector disposed at an input side of the sound trap filter, wherein the trap filter eliminates a frequency signal of 4.85-5.25MHz”

Harford fails to teach these features of claim 15. Harford does not teach that the SAW filter 15 is disposed at the input side of the 4.5 MHz sound IF trap filter 41. Harford also does not disclose that the video detectors (18, 19) are disposed at an input side of the SAW filter 15. Further, Harford is silent as to the range of the frequency that a filter eliminates. Although the sound IF trap filter 41 of Harford is a 4.5MHz sound IF trap filter, 4.5 MHz does not fall within the range of 4.85-5.25MHz. In addition, it would not have been obvious to one of ordinary skill in the art to use this range in the claimed invention because Harford nowhere discloses this range of frequency. Accordingly, Harford fails to teach or suggest a sound trap filter disposed at an input side of the trap filter, and a video detector disposed at an input side of the sound trap filter, wherein the trap filter eliminates a frequency signal of 4.85-5.25MHz, as recited in amended independent claim 15.

For at least the reasons above, Applicant asserts that all claims in the present application are in condition for allowance. Reconsideration and withdrawal of all rejections under 35 U.S.C. §§ 102 and 103 are respectfully requested.

CONCLUSION

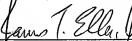
In view of the above amendment, Applicant believes the pending application is in condition for allowance.

Should there be any outstanding matters that need to be resolved in the present application, the Examiner is respectfully requested to contact James T. Eller, Jr., Reg. No. 39,538, at the telephone number of the undersigned below, to conduct an interview in an effort to expedite prosecution in connection with the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37.C.F.R. §§1.16 or 1.17; particularly, extension of time fees.

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Respectfully submitted,

By 

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